

Safety Investigation Recommendations Follow-Up

Kirk Hudson
Ronda Wilkinson
Tony Nelson
Dan Garrison

July 6, 2021

No action requested – information only



Initial Recommendation List

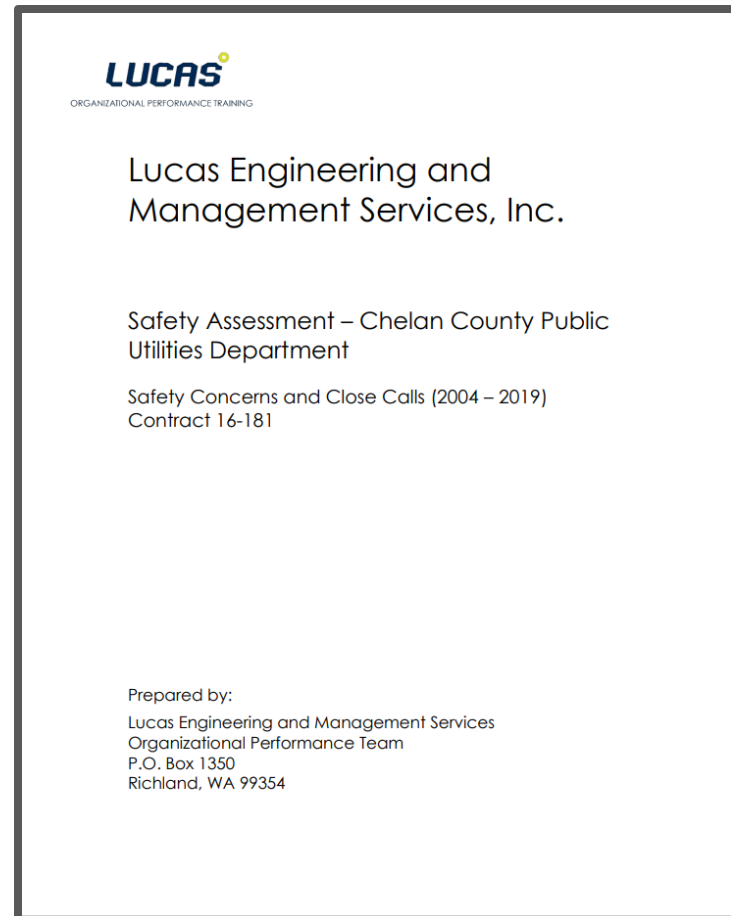
Number	Recommendation	Status
WDR1	Establish operating procedures for bridge and gantry crane lifts.	Complete
WDR2	Conduct an independent survey of assessment of the Safety Concerns and Close Calls program (awareness, use, follow through) (Ronda)	Ongoing
WDRC1	Develop a standard lift plan for moving fixed hoist gates with gantry cranes.	Complete
WDRC2	Revise District Safety Program requirements for gantry and bridge crane operations. (Response combined with WDR1)	Complete
WDRC3	Revise the Spillway OMI to include a procedure for operation of fixed hoist gates and actions to open the swing rails when lifting a fixed hoist gate.	Complete
WDRC4	Develop District Standard for what a good Pre-Task Plan (PTP) looks like	Complete
WDRC5	Implement PTP including metrics and adjustments as needed	Complete
WDRC6	Continue implementation of HPI tools (Ronda)	Ongoing
WDRC7	Develop and implement job planning requirements and standards to ensure that formal job planning is performed. (Tony)	Complete
WDRC8	Perform actions recommended in the Tetra Tech report to correct the design of the swing rails. (Immediate actions complete)	Complete
WDRC9	Evaluate the practice of using working foreman (evaluation complete, actions underway) (Tony)	Complete
TTR1	Inspect spillway bays with swing rails (scheduled to coincide with operations) (Dan)	Ongoing (2 of 11 complete)
TTR2	Revise swing rail design	Complete
TTR3	Analyze interim modifications made to swing rails	Complete
TTRC1	Consider modifications to Crane 3 Block Leaders	Complete
TTRC2	Consider eliminating swing rails (will be addressed as part of modernization project)	Transferred

Green indicates items **completed** since July 2020 update

Red indicates **changes** since July 2020 update

Independent Survey of Safety Concern and Close Call Program

Partnering with Lucas
Engineering to perform
another follow-up
survey in late 2021



WDR2

Establish District Crane Standards & Program Requirements



- Standard
- Certification
- Qualification

Human Performance Improvement

“Through continual learning, we constantly improve the defenses that protect us from the errors all of us can make.”

Intended Outcomes:

- Engaged employees
- Reduction of significant incidents
- Improvement of processes

Human Performance Improvement

*Advancing HPI by
training employees on
the practical application
of additional error-
reduction tools*

Tool Implementation:

- STOP and Seek Out
- Step-by-Step
- TV-STAR
- Peer Check
- Place Keeping
- Daily Task Planning Board
- Pre-Task Plan
- Am-I-Ready
- Three-Way Communication
- Phonetic Alphabet
- First Check

WDRC6

Job Planning and Standards

- Developed planning requirements depending on complexity and risk
- Training and Roll-out completed

WDRC7

Engineering Controls

Spillway bay inspections

FIELD DATA SHEET:																																											
Power Station: RI SPILLWAY	DATE: 10/7/20																																										
BAY NO.: 22	TAKEN BY: WEEKS																																										
EQUIPMENT USED:	SHEET 1 OF 2 rev. 0																																										
SPILLBAY ABOVE DECK RAIL INSPECTION																																											
<input type="checkbox"/> AS-FOUND <input type="checkbox"/> AS-LEFT																																											
DIRECTIONS FOR VISUAL AND DIMENSIONAL INSPECTION OF RAIL ALIGNMENT 1) VISUAL INSPECTION OF RAILS, STANCHION, CLIPS, SPLICE BARS 2) MEASURE AND RECORD RAIL ALIGNMENT AS SHOWN 3) TEST ANCHORS BY SOUNDING WITH A HAMMER 4) USE PIANO WIRE TO VERIFY DOWNSTREAM RAILS ARE FLAT WITHIN 1/8" 5) RECORD ALL DEFICIENCIES ON DIAGRAMS PROVIDED																																											
	<table border="1"> <thead> <tr> <th></th> <th>A $\pm 1.0/-0.5"$</th> <th>B $\pm 1.0/-0.5"$</th> <th>C $\pm 0.5"$</th> <th>D $\pm 0.5"$</th> <th>E</th> <th>F</th> </tr> </thead> <tbody> <tr> <td>DESIGN</td> <td>380.50"</td> <td>377.75</td> <td>25.75"</td> <td>25.75"</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>1 EL. 614.5</td> <td>380.925"</td> <td>378.04"</td> <td>26.19"</td> <td>25.805"</td> <td></td> <td></td> </tr> <tr> <td>2 EL. 616.02</td> <td>380.96"</td> <td>378.1"</td> <td>26.15"</td> <td>26.13"</td> <td></td> <td></td> </tr> <tr> <td>3 EL. 623.5</td> <td>381.0"</td> <td>378.61"</td> <td>25.8"</td> <td>26.21"</td> <td></td> <td></td> </tr> <tr> <td>4 EL. 633.8</td> <td>381.15"</td> <td>379.02"</td> <td>25.07"</td> <td>26.15"</td> <td></td> <td></td> </tr> </tbody> </table>		A $\pm 1.0/-0.5"$	B $\pm 1.0/-0.5"$	C $\pm 0.5"$	D $\pm 0.5"$	E	F	DESIGN	380.50"	377.75	25.75"	25.75"	N/A	N/A	1 EL. 614.5	380.925"	378.04"	26.19"	25.805"			2 EL. 616.02	380.96"	378.1"	26.15"	26.13"			3 EL. 623.5	381.0"	378.61"	25.8"	26.21"			4 EL. 633.8	381.15"	379.02"	25.07"	26.15"		
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- 11 Spill bays with swing rails
- Inspect and document spill bay condition
- Make corrective repairs when needed
- 2 of 11 completed
- Scheduling 2 condition assessments per year until complete

Summary

